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(54) Title: **VACCINE IMMUNOTHERAPY FOR IMMUNE SUPPRESSED PATIENTS**

(57) Abstract: A method of immunotherapy to treat cancer or a synergistic anti-cancer treatment by administering an effective amount of a natural cytokine mixture (NCM), an effective amount of cyclophosphamide (CY), or an effective amount of indomethacin (INDO), wherein the NCM, CY, or INDO are administered singly or in communications thereof. An anti-metastatic treatment method by promoting differentiation and maturation of immature dendritic cells in a lymph node; allowing presentation thereof; and preventing development of metastasis. A method of using an NCM as a diagnostic skin test for predicting treatment outcome. A method of pre-treating dendritic cells (DC) and a method of treating monocyte defects characterized by sinus histiocytosis or a negative NCM skin test. Compositions and methods for eliciting an immune response to endogenous or exogenous tumor antigens.

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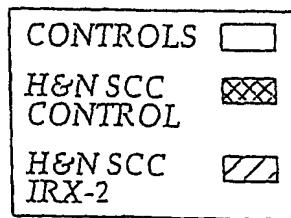
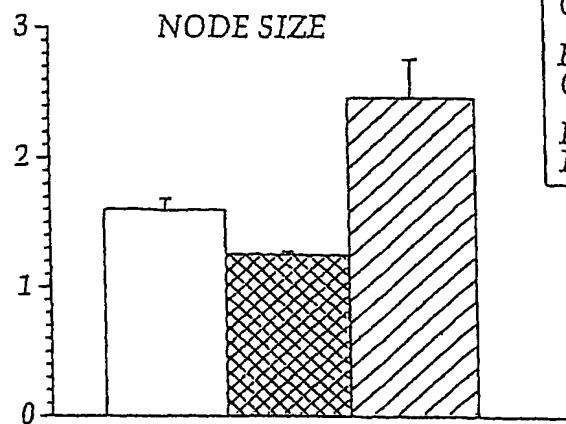
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